



TRIVALENCE

TriVET™ 31B (U,R)

Polybutylene Terephthalate

General Information

Product Description

Medium flow, modified PBT.

FEATURES

- 1.00IV
- High Molecular Weight
- Good strength
- Good Chemical Resistance
- Medium Flow

ADDITIONAL FORMULAS

- Added Release "R"
- Added UV "U"

COLOR

-All

General

- | | |
|-----------------------------|---|
| Typical Applications | -Transportation, housing, electrical |
| Processing Method | -Injection |
| Form(s) | -Pellets |
| Availability | -North America, Europe, Asia, Latin America |

ASTM / ISO Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.31	g/cm ³	ISO 1183
Melt Flow Rate (250°C/2.16kg)	60	g/10min	ISO 1133
Molding Shrinkage - Flow (3.2mm)	1.8 to 2.0	%	TVT Internal
Outdoor Suitability - QUV ("U" grades only)	Pass		QUV - TVT Internal
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength, yld	58	MPa	ISO 527
Tensile Modulus	2400	MPa	ISO 178
Charpy Notched Impact	3.1	kJ/m ²	ISO 179
Rockwell Hardness	70	M-Scale	ISO 2039
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (0.45 MPa)	301	°F	ISO 75
Deflection Temperature Under Load (1.8 MPa)	122	°F	ISO 75
Vicat Softening Temperature	364	°F	ISO 75
CLTE - Flow	6.1E-5	in/in/°F	ASTM E831
Flammability	Nominal Value	Unit	Test Method
0.06 in	HB		UL94 TVT Internal
Recommended Processing Guidance			
Drying Temperature	110 to 130	°C	
Drying Time	3 to 6	Hours	
Suggested Max Moisture	0.02	%	
Processing Melt Temperature	240 to 275	°C	
Mold Temperature	60 to 90	°C	